| FORM 5 | MDEQ | MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY APPLICATION FOR AIR POLLUTION CONTROL PERMIT |
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# Fuel Burning Equipment – Internal Combustion Engines | Section D

## 1. Emission Point Description

A. Emission Point Designation (Ref. No.): _____

B. Equipment Description: _____

C. Manufacturer: _____ D. Model Yr. and No.: _____

E. Maximum Heat Input (higher heating value): _____ MMBtu/hr

F. Rated Power: _____ hp _____ kW

G. Use: ☐ Non-emergency ☐ Emergency

**Complete H through K for Reciprocating (Piston) Internal Combustion Engines**

H. Displacement per cylinder: ☐ < 10 Liters ☐ 10 to <30 Liters ☐ ≥ 30 Liters

I. Engine Ignition Type: ☐ Spark Ignition ☐ Compression Ignition

J. Engine Burn Type: ☐ 4-stroke ☐ 2-stroke ☐ Rich Burn ☐ Lean Burn
*(check all that apply)*

K. Design Controls (e.g., catalytic converter, diesel particulate filter, SCR, etc.) _____

**Complete L through M for Stationary Gas Turbines**

L. Turbine Type: ☐ Simple Cycle ☐ Regenerative Cycle ☐ Combined Cycle
☐ Combined Heat and Power (Cogeneration)

M. Controls: ☐ Water-Steam Injection ☐ Lean Premix
☐ Other Controls (SCR, oxidation catalyst, etc.): _____

N. Status: ☐ Operating ☐ Proposed ☐ Under Construction

O. Engine manufactured date: _____ N. Engine order date: _____

P. If an emergency engine, can your engine be operated for Emergency Demand Response per the NERC Reliability Standard? ☐ Yes ☐ No

Q. If an emergency engine, is it used for peak shaving or non-emergency demand response? ☐ Yes ☐ No

R. Date of construction, reconstruction, or most recent modification (for existing sources) or date of anticipated construction: _____

## 2. Fuel Type

Complete the following table, identifying each type of fuel and the amount used. Specify units of measurement.

| FUEL TYPE | HEAT CONTENT | % SULFUR | % ASH | MAXIMUM HOURLY USAGE | MAXIMUM YEARLY USAGE |
|---|---|---|---|---|---|
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